

Caio Montilha

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Profile:

- Full-Stack Developer with knowledge of programming languages, data structures, algorithms, and software development, with a strong problem-solving mindset.
 - Skilled in developing web and mobile applications, applying algorithmic thinking and modern technologies to deliver efficient, user-centered solutions with a focus on clean, scalable code.
 - Fluent in Portuguese and English; basic Spanish, enabling communication in multicultural teams.
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Education:

Hanover College, January 2022 – May 2025

- Major: Computer Science and Business
 - GPA: 3.4, Dean's List, 2024, 2025
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Skills:

- Programming Languages – Experienced in Python, Kotlin; familiar with Java, C++, R
 - Web Development – HTML, CSS, JavaScript, TypeScript, React, Node.js
 - Database Management – SQL (MySQL, Supabase); NoSQL (MongoDB, Firebase)
 - Algorithms and Data Structures – Algorithm Analysis, Sorting and Searching Algorithms, Dynamic Programming, Arrays, Lists, Stacks, Queues, Linked Lists, Trees, Graphs
 - Software Development Tools – GitHub, Maven, Docker, Kubernetes, JUnit, Mockito, Gradle, Kali Linux, macOS, VirtualBox, UTM, Unity, Android Studio, Artificial Intelligence, Generative AI
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Projects:

RideSharingHC App Development, Senior Seminar, February 2025

- Developed RideSharingHC, a community ridesharing app for university students, featuring secure user authentication, and in-app messaging to enhance safety and convenience.
- Integrated Google Maps for real-time route planning and refined key features based on feedback from the MVP presentation, demonstrating a user-centered development approach.

Algorithm Efficiency Analysis, January – December 2024

- Compared the performance of various sorting algorithms, including Bubble Sort, Insertion Sort, Selection Sort, Merge Sort, and QuickSort, evaluating their efficiency across different scenarios.
- Implemented tests and visualized results through comparative graphs, using Python and Java.

National Park Service Data Organization, August – November 2022

- Managed databases using SQL and MySQL for efficient data analysis and organization.
 - Developed Python scripts to automate the extraction and cleaning of large datasets.
 - Utilized SQL queries to extract strategic insights from structured data.
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Volunteering:

Website Developer, Centre for Youth and Sustainable Development, February 2025 – May 2025

- Built a responsive website with MIVEG to promote the education and health of girls in Cameroon.

Website Designer, Koenig Childhood Cancer Foundation, March - June 2025

- Improved website accessibility and engagement to support donations/aid for children with cancer.
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Experience:

- Experienced in Full-Stack Development, Algorithm Analysis, Web & Mobile Development, Software Engineering, Data Structures, Data Wrangling, Networking, and Cloud Computing.
 - Proficient in multiple programming languages, applying advanced concepts to solve problems across various Computer Science domains.
 - Developed scalable web applications using HTML, CSS, JavaScript, and TypeScript, focusing on code efficiency, user experience, and system performance.
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Certifications:

IBM AI Developer Professional Certificate, Coursera, December 2024 – April 2025

- Completed a 10-course program focused on AI, generative AI, and full-stack development using Python, Flask, HTML, CSS, JavaScript, and IBM Watson tools.

Generative AI Explained, NVIDIA Deep Learning Institute (DLI), March 2025

- Acquired foundational knowledge of GenAI, its applications, and challenges in AI development.